



JOINT LEGISLATIVE TASKFORCE ON WATER RESOURCE MITIGATION

DECEMBER 8, 2021

WATER REUSE

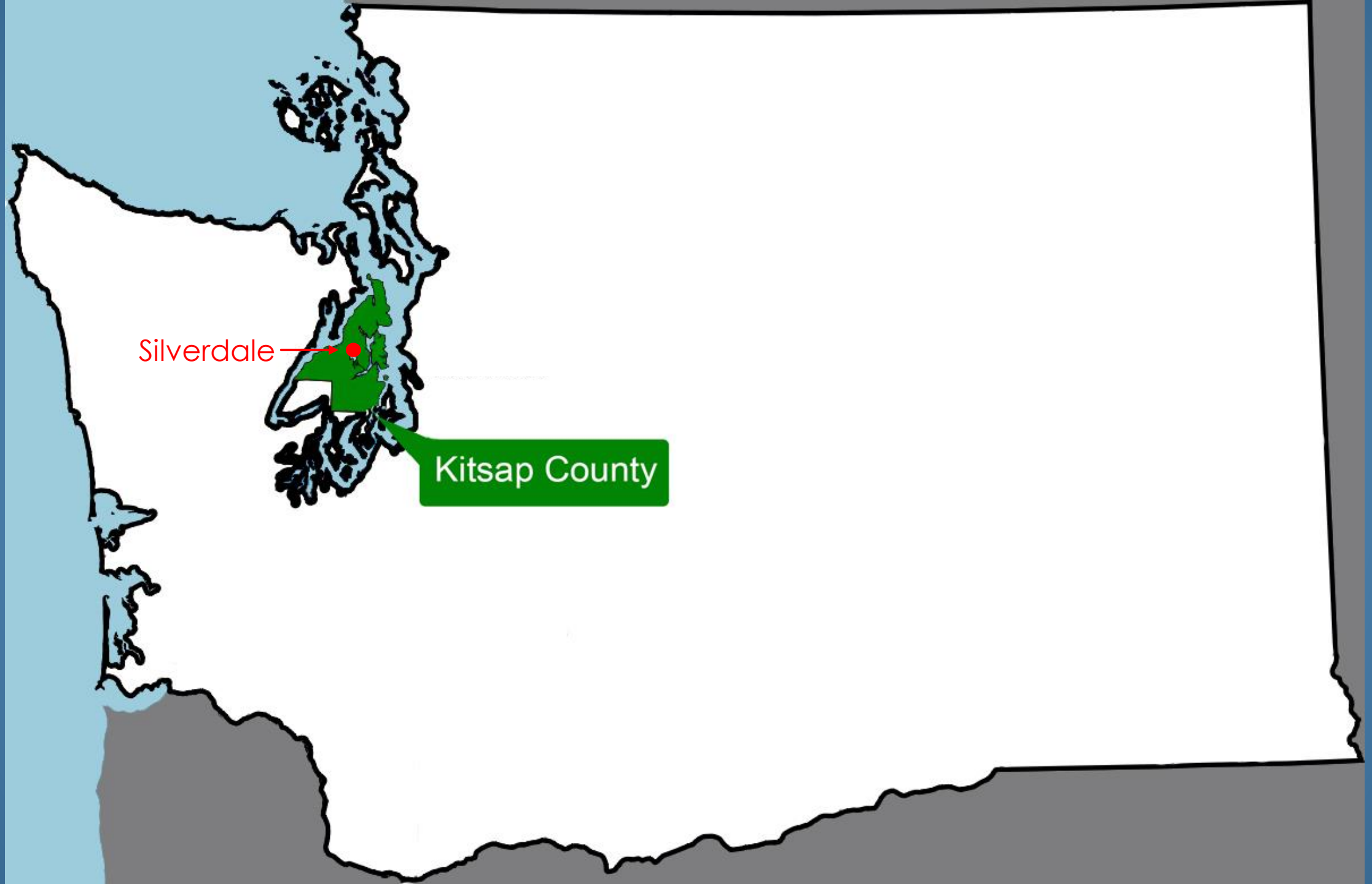


COMMISSIONER MARCUS HOFFMAN

COMMISSIONER JOHN POPPE

COMMISSIONER JOY RAMSDELL

GENERAL MANAGER MORGAN JOHNSON

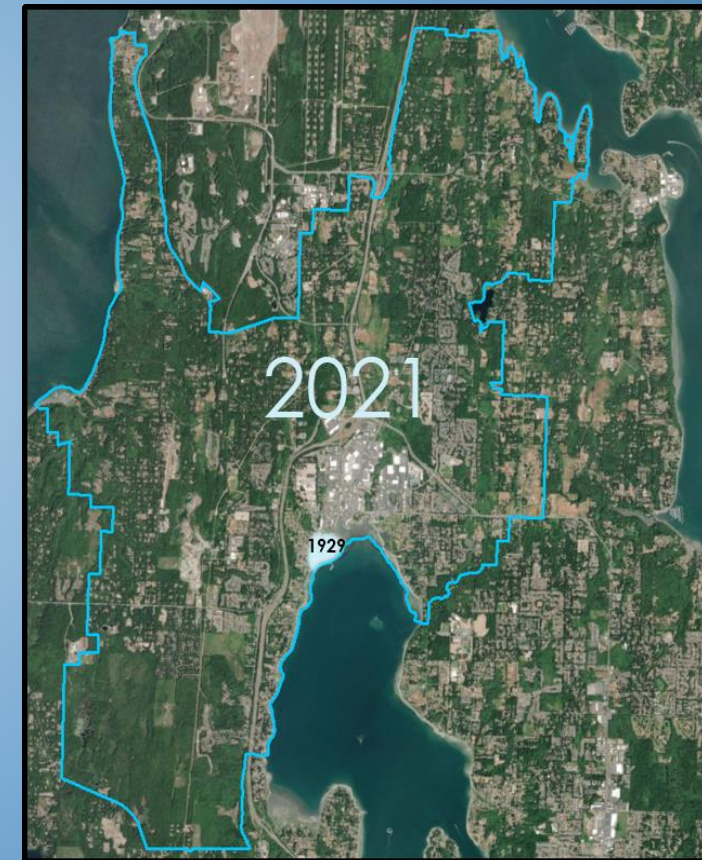


Silverdale

Kitsap County

SILVERDALE WATER DISTRICT

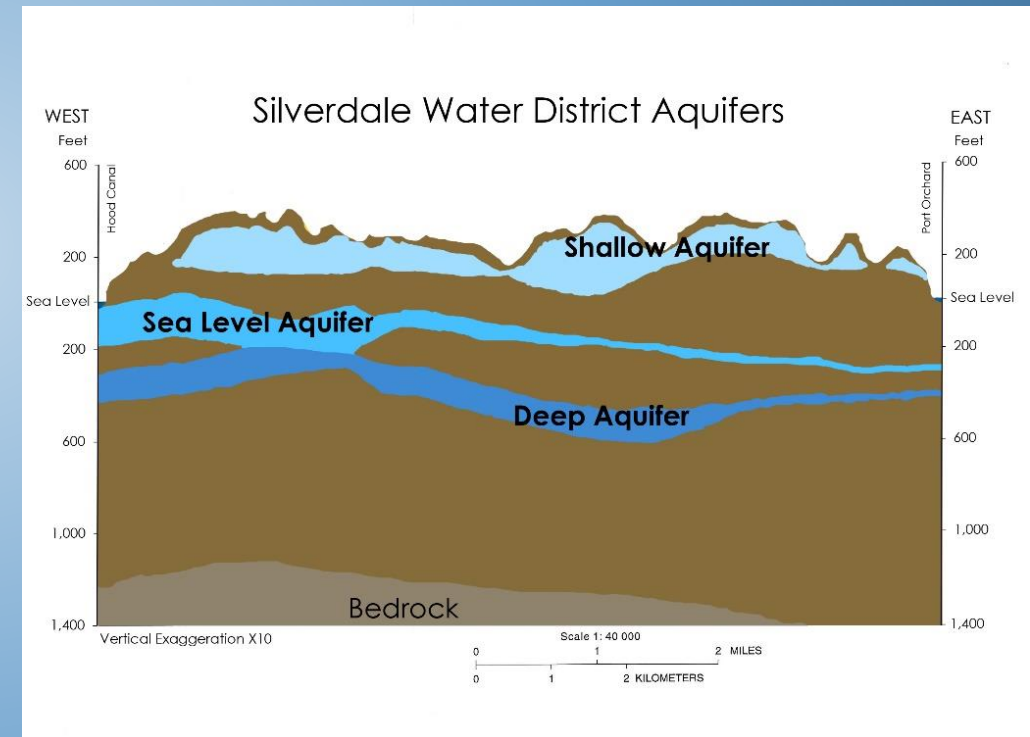
- FORMED IN 1929
- CURRENT POPULATION SERVED – 25,000
- SERVICE AREA – 25.8 SQUARE MILES
- 170 MILES OF WATER MAIN
 - 161.7 MILES POTABLE MAIN; 8.3 MILES RECYCLED MAIN
- 6,780 SERVICE CONNECTIONS
- 12 ACTIVE WELL SOURCES
- DISTRICT WATER RIGHTS – OVER 8,500 ACRE FT.
- 12 ABOVE-GROUND STEEL RESERVOIRS
 - ~8 MG OF POTABLE WATER STORAGE



Silverdale Water District Service Area
1929 and Present

SILVERDALE WATER DISTRICT SOURCES

- THREE DISTINCT AQUIFERS
 - SHALLOW AQUIFER
 - SEA LEVEL AQUIFER
 - DEEP AQUIFER
- 100% RAINFALL RECHARGE



KITSAP COUNTY GROWTH

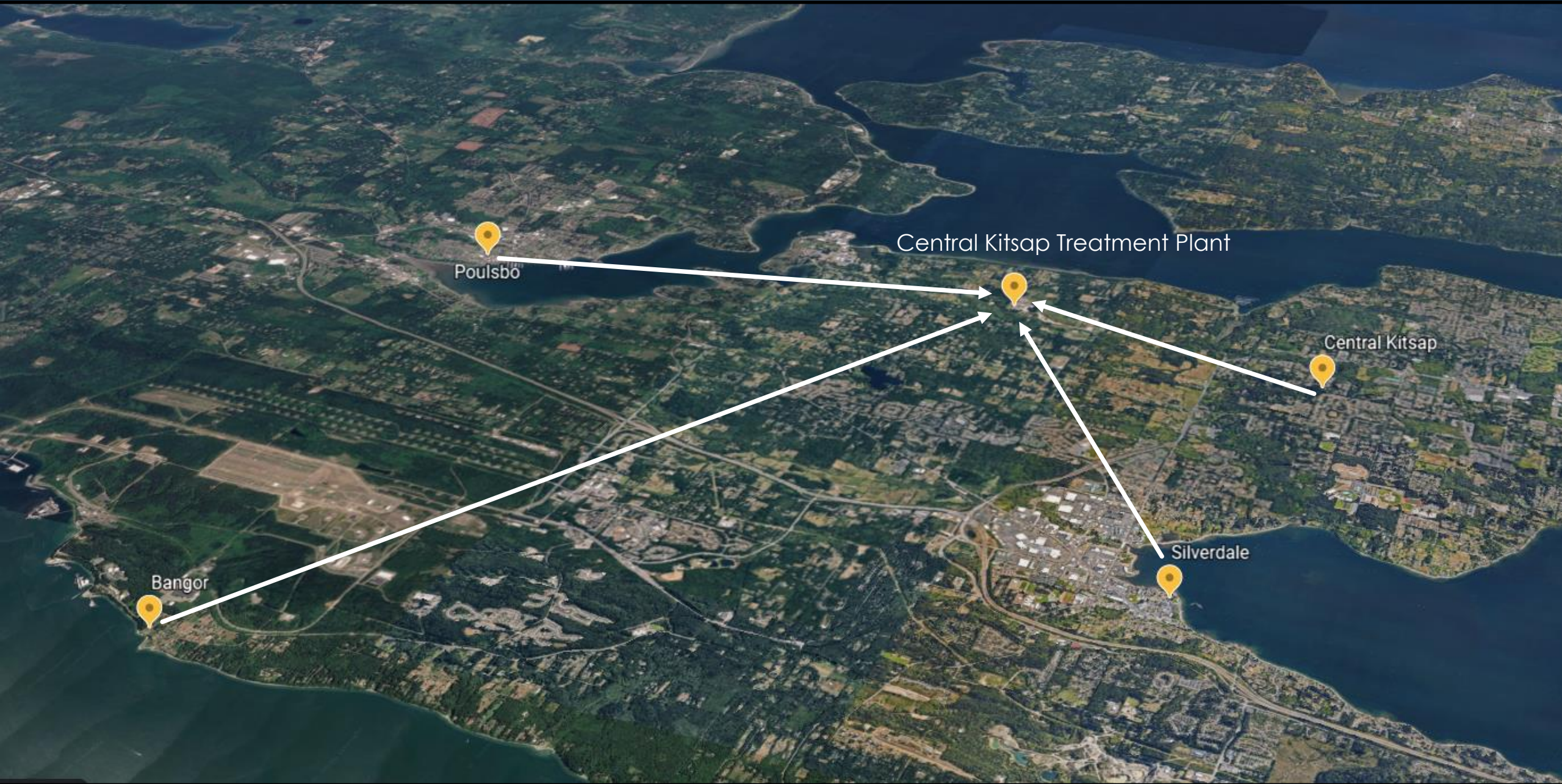
- CURRENT POPULATION: **275,611**
- EST. POPULATION IN 2040: **363,928**
 - ANTICIPATED **24%** INCREASE



Kitsap Sun – 07.11.2018



CENTRAL KITSAP TREATMENT PLANT



Central Kitsap Treatment Plant

Poulsbo

Central Kitsap

Silverdale

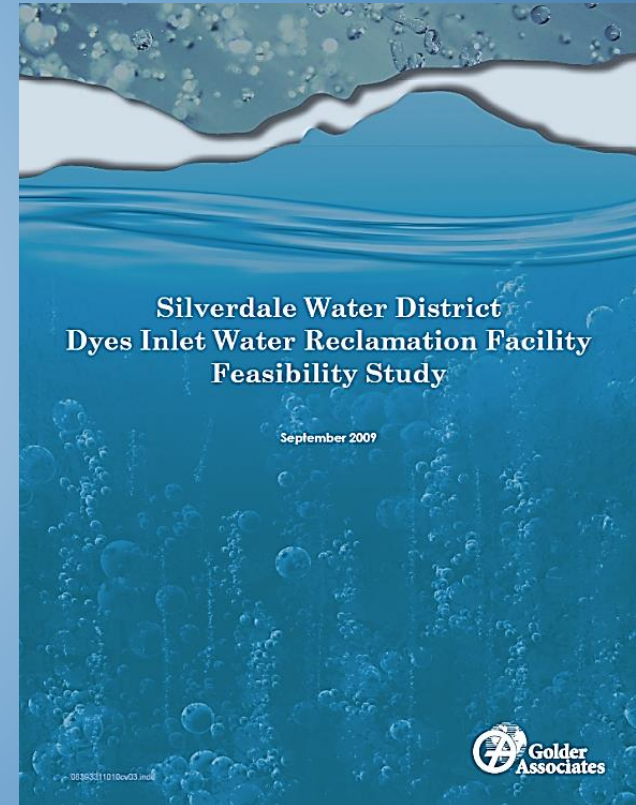
Bangor

- 3.4 MGD OF SEWAGE
- 2015 - \$35 M PLANT IMPROVEMENT PROJECT
- WILL PRODUCE CLASS-A RECYCLED WATER
- TREATED WATER CURRENTLY DISCHARGED INTO PUGET SOUND
 - 3,200 FT. OFFSHORE
 - 46 FT. BELOW SURFACE

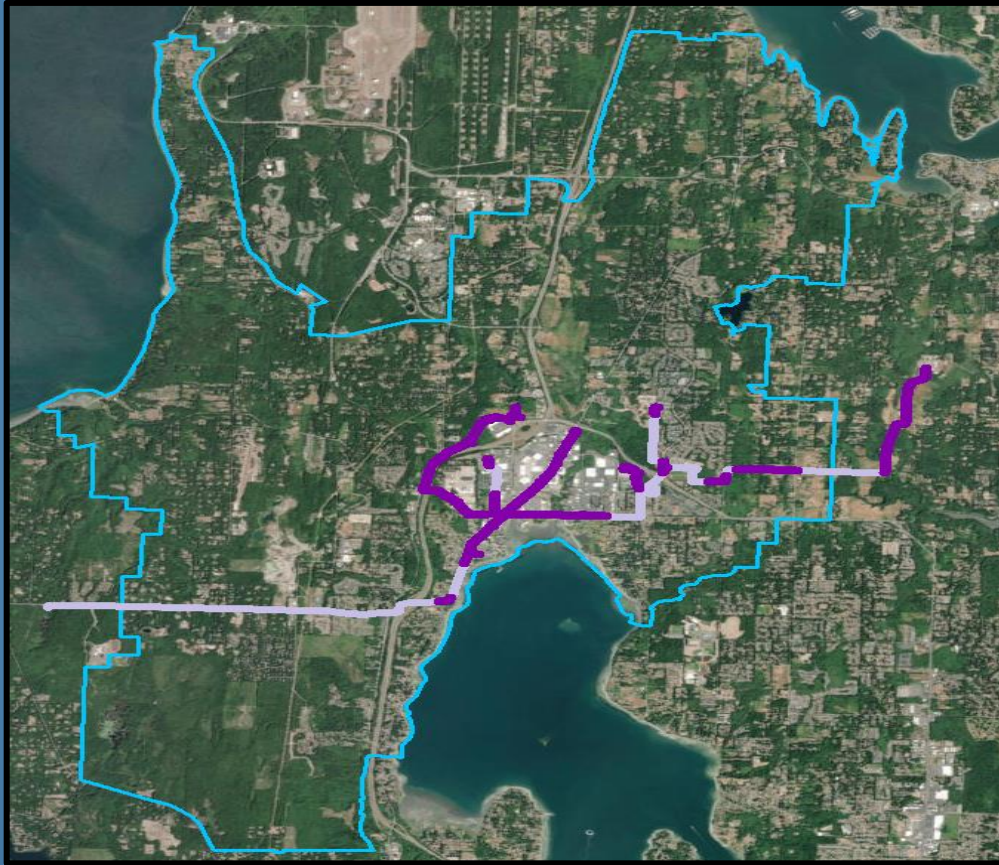


COMPLETED ACTIONS

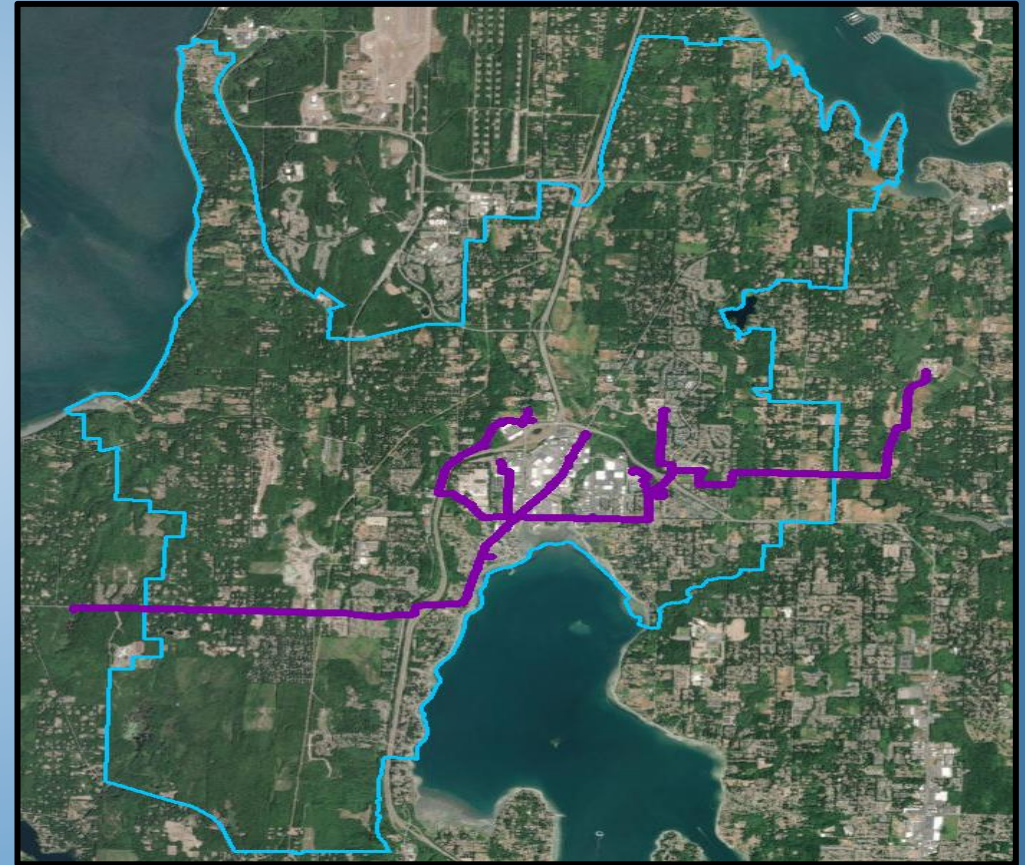
- 2009 - FEASIBILITY STUDY
 - \$250,000 GRANT (ECOLOGY)
- 2009 - INITIAL RECYCLED WATER MAIN INSTALLATION IN SILVERDALE (949 FT.)
- 2021 - 43,915 FT. RECYCLED WATER MAIN INSTALLED (8.3 MILES) TO DATE



RECYCLED INFRASTRUCTURE



Current



Future

RECYCLED WATER USAGE

Nearly **26 MG** purple pipe water used (Jan – Oct 2021)

- CENTRAL KITSAP MIDDLE & HIGH SCHOOLS
 - COMPLETED IN 2020; CONSTRUCTED WITH RECYCLED WATER FOR IRRIGATION
 - USED OVER 7 MG OF PURPLE PIPE WATER FROM JANUARY – OCTOBER 2021
- ST. MICHAEL MEDICAL CENTER
 - COMPLETED IN 2021; DUAL PLUMBING FOR TOILETS AND IRRIGATION
 - USED OVER 8.6 MG OF PURPLE PIPE WATER FROM JANUARY – OCTOBER 2021
- YMCA - SILVERDALE
 - COMPLETED IN 2011; DUAL PLUMBING FOR TOILETS AND IRRIGATION
 - USED OVER 2.2 MG OF PURPLE PIPE WATER FROM JANUARY – OCTOBER 2021
- OTHER RECYCLED WATER CUSTOMERS
 - 8.1 MG USED FROM JANUARY – OCTOBER 2021

WATER RESOURCE INVENTORY AREA (WRIA) 15

- STREAMFLOW AUGMENTATION AND AQUIFER RECHARGE
 - DICKEY PIT, ASBURY SOILS, NEWBERRY HILL POND
 - INFILTRATE APPROXIMATELY 0.5 MGD



WRIA 15 Augmentation Sites

FUNDING

- GRANTS
- SILVERDALE WATER DISTRICT
- PARTNERSHIPS
- PUBLIC WORKS TRUST FUND



PARTNERSHIPS

- KITSAP COUNTY
 - CENTRAL KITSAP TREATMENT PLANT
 - PUBLIC WORKS
- SILVERDALE YMCA
- ST. MICHAEL MEDICAL CENTER
- CENTRAL KITSAP SCHOOL DISTRICT
- KITSAP PUBLIC UTILITY DISTRICT
- UNIVERSITY OF WASHINGTON

St. Michael Medical Center



PUBLIC OUTREACH

- WEBSITE: WWW.SWD16.ORG
- FACEBOOK POSTS
- YOUTUBE VIDEOS
- COMMUNITY PRESENTATIONS

